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Mar 13, 1992

DERWENT-ACC-NO: 1992-138673

DERWENT-WEEK: 199217

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TITLE: New peptide based on leucine, lysine and proline - for angiotensin converting enzyme inhibitor

PATENT-ASSIGNEE: NISSEI SEIFUN KK (NSSK)

PRIORITY-DATA: 1990JP-0194781 (July 25, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 04082898 A	March 13, 1992		005	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP04082898A	July 25, 1990	1990JP-0194781	

INT-CL (IPC): A61K 37/64; C07K 5/08; C12N 9/99

ABSTRACTED-PUB-NO: JP04082898A

BASIC-ABSTRACT:

A peptide Leu-Lys-Pro and its salts and angiotensin converting enzyme (ACE) inhibitor which contains the peptide or its salts as active components are new.

USE/ADVANTAGE - The ACE inhibitor inhibits ACE activity by extremely small amt. of admin. to achieve vasodepression effect. The inhibitor is white water soluble powder, it can be administered simply, orally or parenterally. Also the chemical structure is simple, chemical synthesis is easy.

In an example, after whey protein (Nihon Protein Co.; ALACEN 132) (5 g) was dispersed and dissolved in 0.03N HCl (100 ml), distilled water was added to total vol. 200 ml. After pH was adjusted at 2.0 with 1N HCl, pepsin (Sigma Co.) (5,000 units) was added, and reacted at 37 deg.C for 15 hrs. After pH was adjusted at 4.4 with 5N NaOH aq. soln., protease M derived from Aspergillus sp. (Amano Seiyaku Co.) (1000 units) was added and reacted at 45 deg.C for 5 hrs. After pH was adjusted at 6.0 with 5N NaOH aq. soln., enzyme was inactivated at 90 deg.C for 20 min. After cooling to room temp., centrifuged and supernatant was lyophilised. 4.0 g of peptide mixt. was obtd. This was treated by SP-Toyopearl 550C column chromatography, Biogel P-2 column chromatography, HPLC in order. 1200 micro-g of white solid was recovered. It was confirmed as H.L-Leu-L-Lys-L-Pro.OH.

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EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg. 0/0